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SMD Operations Procedures Manual

8.1.3.8 OPERATION OF THE MAGCOOL PUMP AND PURGE SYSTEM

Text Pages 1 through 2

Hand Processed Changes

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Date

Preparer(s): R. Picinich

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8.1.3.8 Operation of the MAGCOOL Pump and Purge System

1.0 Purpose

This procedure provides instructions for Start and Completion of pump and purge.

2.0 Responsibilities and Scope

Operator is responsible for Start and Completion of pump and purge.

3.0 Prerequisites

- 3.1 Operator shall be trained by a supervisor or authorized personnel.
- 3.2 Training shall include operation of 100 HP Sullairs, Purifiers, and Vacuum Pumps.

4.0 Precautions

Hearing protection shall be worn in the compressor room. Ensure personnel near units are authorized, or accompanied by authorized personnel.

5.0 Procedure

- A. Manually **START** vacuum **PUMP B**. Enter start in Log.
- B. Turn on air supply to both headers on the bay to be used (either A B C D or E).
- C. Display pages D9, 10.
- D. Bring cursor to **PUMP & PURGE** position for the bay in use. Press **SET**. **ON** flag will appear. Enter start time in Log.
- E. When vacuum reaches ~ 500 μ vacuum **valves will close** and **magnet is pressurized** to 6 - 10 atms. with helium. Pressure will be released and the vacuum cycle will start again.

The P/P program is automatically repeated 3 times, followed by a **DONE** flag appearing in the display. Enter "done" time in Log.

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- F. Magnet will be at the pressure in the purge return line until the **COOLDOWN I PROGRAM** is installed.

6.0 Documentation

Documentation as indicated in the procedures is kept in the MAGCOOL Logbook located in Building 902. Enter any unusual repairs or events (leaks, etc.) in the Log.

7.0 Reference

Operation and Maintenance manual provided by CVI is kept in the MAGCOOL Control Room located in Bldg. 902. An operators program guide and operations guide is given to all operators and a copy is kept in the MAGCOOL Control Room located in Bldg. 902.

8.0 Attachments

None